

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

SUMMARY

Development	Page	Actual YTD June 2007	Budget 2007	Projected 2008	Projected 2009	Projected 2010	Projected 2011	Projected 2012	Projected 2013	Projected Total
New Reservoirs & Pump Stations	4	-	-	50	150	500	800	4,000	4,000	9,500
Hazen 565 Zone Reservoir	6	85	3,380	6,000	-	-	-	-	-	6,000
Supply Development and Water Quality Improvements	8	182	840	50	150	50	100	100	100	550
Total		267	4,220	6,100	300	550	900	4,100	4,100	16,050

Major Maintenance	Page	Actual YTD June 2007	Budget 2007	Projected 2008	Projected 2009	Projected 2010	Projected 2011	Projected 2012	Projected 2013	Projected Total
Water Main Replacement	10	71	1,400	2,100	1,300	1,000	1,000	1,000	1,000	7,400
I-405 Utilities Relocation	12	2	500	100	-	320	-	-	-	420
Automatic Meter Reading Conversion	14	-	-	200	100	500	500	500	500	2,300
Water Utility Major Maintenance	16	1,818	2,634	210	340	190	210	200	350	1,500
Total		1,891	4,534	2,610	1,740	2,010	1,710	1,700	1,850	11,620

Regulatory Compliance	Page	Actual YTD June 2007	Budget 2007	Projected 2008	Projected 2009	Projected 2010	Projected 2011	Projected 2012	Projected 2013	Projected Total
Regulatory Compliance Program	18	10	196	165	155	135	335	235	235	1,260
Total		10	196	165	155	135	335	235	235	1,260

Total Six-Year Project Costs		2,168	8,950	8,875	2,195	2,695	2,945	6,035	6,185	28,930
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Projects Introduced in 2007 included above		Actual YTD June 2007	Budget 2007	Projected 2008	Projected 2009	Projected 2010	Projected 2011	Projected 2012	Projected 2013	Projected Total
Hazen 565 Reservoir (stand alone proj)			3,280	5,500						5,500
Rainier Ave S - S 2nd to Grady Way				300	400					700
Total		-	3,280	5,800	400	-	-	-	-	6,200

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

SUMMARY

Related Debt	Actual 2007	Budget 2007	Projected 2008	Projected 2009	Projected 2010	Projected 2011	Projected 2012	Projected 2013	Projected Total
Bonds	1,883	1,883	1,883	1,850	1,832	1,798	1,799	1,093	10,255
Public Works Trust Fund Loans	558	558	555	551	548	544	541	538	3,277
Total	2,441	2,441	2,438	2,401	2,380	2,342	2,340	1,631	13,532

Summary of Funding Sources	Projected 2008	Projected 2009	Projected 2010	Projected 2011	Projected 2012	Projected 2013	Projected Total
Operating	728	399	549	544	1,134	1,157	4,511
Bond/Loans	7,716	1,320	1,354	1,478	1,363	1,485	14,716
SDC/SAD	320	340	348	326	624	659	2,617
Undetermined	111	136	444	597	2,914	2,884	7,086
Total	8,875	2,195	2,695	2,945	6,035	6,185	28,930

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CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: New Reservoirs & Pump Stations

Project Type: Development

Total Anticipated Project Cost: \$ 9,500

Project Description: This program will evaluate the City's needs to provide sufficient water storage capacity and supply reliability in all hydraulic zones of the City's water system, for fire protection and for peak demand water needs to accommodate the City's growth and for new development and/or redevelopment throughout the City. The program will evaluate the acquisition of properties (if needed) for new reservoirs and pump stations, along with the use of existing City-owned properties to construct the new facilities.

Budget Overview		Budget	YTD Actual	Remaining
2006		-		-
2007 Adopted Budget				
Plus: Carryforward Funds		+/-		
Mid Year Adjustments		date +/-		
2007 Adjusted Budget		-		-

Summary of Progress & Changes

A site assessment and pre-design study will be conducted in 2008. Design and construction of new facilities anticipated in 2011-2013.

Activity			Life to Date Project Total	P r o j e c t e d					
	Through 2006	June 2007 YTD		2008	2009	2010	2011	2012	2013
Expenditures	-		-	50	150	500	800	4,000	4,000
Revenues:									
Operating			-	7	30	90	144	720	720
Bonds/Loans			-	35	-	-	-	-	-
SDC/SAD			-	6	14	55	88	440	440
Other ⁿ			-	2	106	355	568	2,840	2,840
Total Revenues	-	-	-	50	150	500	800	4,000	4,000
Funds Available			-						

m =mitigation; g=grant; d=developer contribution; n=not funded

Amounts are in thousands of dollars

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: New Reservoirs & Pump Stations

Project Type: Development

Total Anticipated Project Cost: \$ 9,500

New Reservoirs and Pump Stations

Project Description: This program will evaluate the City's needs to provide sufficient water storage capacity and supply reliability in all hydraulic zones of the City's water system, for fire protection and for peak demand water needs to accommodate growth and for new development and/or redevelopment throughout the City. The program will evaluate the acquisition of properties needed for new reservoirs and pump stations, along with the use of existing City-owned properties to construct the new facilities. Existing and older reservoirs that may not sustain seismic events may be upgraded or demolished (if more cost effective) to allow for construction of larger reservoirs. Pre-design studies will be conducted prior to site acquisition (if necessary), design, and construction of projects.

Project Benefits: In addition to providing sufficient water storage and water supply reliability, the new reservoirs and pump stations will improve "reduce life safety risks" and optimize "reduction economic risk" during seismic events. The project will reduce failure consequences including loss of storage tank system operation, loss of use of communication systems, and resultant property damage.

Project Schedule: The pre-design study will be conducted in 2008, property acquisition (if needed) in 2009-2010, and design and construction of projects in 2011-2013.

Project Budget: The planning-level cost estimate for property acquisition (if needed), site assessment, pre-design, design, and construction during the 6 year (2008-2013) planning period is about \$9,500,000.

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Hazen 565 Zone Reservoir

Project Type: Development

Total Anticipated Project Cost: \$ 9,632

Project Description: This project consists of the design and construction of a 4.2 million gallon steel reservoir in the Highlands 565 pressure-zone. The reservoir is needed to increase water storage in order to meet peak periods of demand, and to provide storage for fire suppression.

Budget Overview		Budget	YTD Actual	Remaining
2006		2,391	139	2,252
2007 Adopted Budget		3,380		
Plus: Carryforward Funds	+/-			
Mid Year Adjustments	+/-			
2007 Adjusted Budget		3,380		3,380

Summary of Progress & Changes

Construction of the reservoir will begin in November 2007 and end in October 2008. Council's approval of additional project budget of \$2.72 million will be requested prior to award of construction contract due to substantial increase in construction materials, labor, and equipment costs.

Activity			Life to Date Project Total	P r o j e c t e d					
	Through 2006	June 2007 YTD		2008	2009	2010	2011	2012	2013
Expenditures	252	85	338	6,000	-	-	-	-	-
Revenues:									
Operating	106	2,231	2,337	312	-	-	-	-	-
Bonds/Loans	96		96	5,688	-	-	-	-	-
SDC/SAD	50	1,149	1,200	-	-	-	-	-	-
Other ⁿ	-		-	-	-	-	-	-	-
Total Revenues	252	3,380	3,632	6,000	-	-	-	-	-
Funds Available			3,295						

m =mitigation; g=grant; d=developer contribution; n=not funded

Amounts are in thousands of dollars

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Hazen 565 Zone Reservoir

Project Type: Development

Total Anticipated Project Cost: \$ 9,632

Hazen 565 Zone Reservoir (WO# 55515):

Project Description: This project consists of the design and construction of a 4.2 million gallon reservoir located in the Highlands 565 pressure zone, on City-owned property. The reservoir will provide additional water storage to meet peak periods of water demand, for fire suppression storage, and for system reliability.

Project Benefits: The additional reservoir in this pressure zone is needed to ensure sufficient storage for normal and emergency uses and to allow the existing Highlands 565-reservoir to be taken out of service for maintenance. The project will increase the water system reliability and improve level of service for fire protection to the Highlands area.

Project Schedule: The design of the reservoir was completed in July 2007 and the project was advertised for public bids in August 2007. Construction of the reservoir is anticipated to begin in November 2007 and to end in October 2008. The project was delayed for one year so that Water Utility staff can complete construction management of the Maplewood Water Treatment Facility and of the Emergency Power Generation Facilities for the Downtown pump stations.

Project Budget: The revised estimated cost to construct this project in 2007-2008 is \$6.00 million, based on final construction plans and on actual costs of recent similar projects. The revised project cost is \$2.72 million above the previous estimate of \$3.28 million, the increase in cost is mainly due to higher cost of construction materials, especially for the large amount of steel used for the reservoir shell, along with higher labor and equipment costs. The Water Utility will request Council's approval of additional funds before the award of the construction contract that is anticipated in October 2007.

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Supply Development and Water Quality Improvements

Project Type: Development

Total Anticipated Project Cost: \$ 15,795

Project Description: This program consists of the development of new water supply to meet growth demand, and the construction of water treatment facilities to optimize water quality of existing supplies. Improvements to existing City's sources of water supply will be made to increase yield and to improve water quality. The program includes the design and construction of water system emergency interties with adjacent utilities and municipal water purveyors. Description of projects follows on page 9.

Budget Overview		Budget	YTD Actual	Remaining
2006		1,047	604	443
2007 Adopted Budget		810		
Plus: Carryforward Funds	+/-	30		
Mid Year Adjustments				
2007 Adjusted Budget		840		840

Summary of Progress & Changes

The Maplewood Water Treatment Facility was successfully completed and the facility has been fully operational since August 2006.

The pre-design study for Well 5A and the selection of water treatment process were completed in July 2007. This project needs to be delayed a few years due to much higher estimated construction costs than previously anticipated.

Activity			Life to Date Project Total	P r o j e c t e d					
	Through 2006	June 2007 YTD		2008	2009	2010	2011	2012	2013
Expenditures	14,405	182	14,586	50	150	50	100	100	100
Revenues:									
Operating	2,413	554	2,967	7	27	10	19	20	20
Bonds/Loans	10,803	-	10,803	35	97	31	69	67	68
SDC/SAD	1,188	286	1,474	6	24	7	11	9	10
Other ⁿ			-	2	2	2	1	4	2
Total Revenues	14,405	840	15,245	50	150	50	100	100	100
Funds Available			658						

m =mitigation; g=grant; d=developer contribution; n=not funded

Amounts are in thousands of dollars

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Supply Development and Water Quality Improvements

Project Type: Development

Total Anticipated Project Cost: \$ 15,795

Maplewood Water Quality Improvement (WO# 55562):

The Maplewood Water Treatment Facility was completed and the facility has been in full operation since August 2006. Upgrade to the operation control system at the existing pump station was completed in 2007.

Well 5A Water Quality Improvement (WO# 55565):

In 2007, the Water Utility completed the water quality testing and pre-design report to determine the best treatment method and necessary modifications to the existing well house to improve the finished water quality of Well 5A. The consultant recommends that the existing well house be demolished in order to accommodate the new treatment facility and related site and utilities improvements. The estimated cost for the design and construction of the new facility is \$11.2 million which is too expensive to treat 1,500 gallon per minute of supply. As such, the Water Utility intends to delay the design and construction of this project beyond the 6 year (2008-2013) planning period. The City will continue to use other water supply sources and put more effort into water conservation measures to reduce peak water demand during the summer months.

Emergency Water Intertie with Adjacent Water Districts (WO# 55445):

This project consists of the design and construction of emergency water inter-ties with adjacent water districts to provide back-up water supply during emergency events. The estimated expenditures for this project during this 6 year planning period (2008-2013) are \$100,000.

Reimbursement for Oversizing of New Water Main Extensions by Developers (WO# 55100):

This project consists of the City's share for the installation of large "oversized" water main extensions that were installed by private developers to provide additional pipe capacity for future growth. The increase in pipe size is consistent with City policies and with the Comprehensive Water System Plan. The estimated expenditures for this 6 year (2008-2013) planning period are \$450,000.

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Water Main Replacement

Project Type: Major Maintenance

Total Anticipated Project Cost: \$ 12,871

Project Description: This program consists of the design and systematic replacement of old, rusty, leaking, and undersized cast-iron, steel, and asbestos-cement water mains throughout the City to improve fire flow capacity and water quality in the distribution system. Prioritization of pipe replacement is based on several factors including degree of fireflow deficiency, frequency of leaks and breaks, and coordination with scheduled street improvements. The program also includes the relocation and replacement of existing water mains in conjunction with scheduled roadway and utilities improvement projects.

Budget Overview		Budget	YTD Actual	Remaining
2006		2,270	668	1,602
2007 Adopted Budget		1,400		
Plus: Carryforward Funds	+/-			
Mid Year Adjustments				
2007 Adjusted Budget		1,400		1,400

Summary of Progress & Changes

Replacement of old water lines in Maplewood started in August 2007 and is scheduled for completion in December 2007. Water main improvements in Duvall Ave NE to be completed by December 2007. Completed design of water main improvements for Highlands redevelopment area; construction to start in 2008.

Activity			Life to Date Project Total	P r o j e c t e d					
	Through 2006	June 2007 YTD		2008	2009	2010	2011	2012	2013
Expenditures	4,071	71	4,142	2,100	1,300	1,000	1,000	1,000	1,000
Revenues:									
Operating	1,751	924	2,675	304	235	209	186	204	200
Bonds/Loans	1,506	-	1,506	1,481	839	617	689	670	680
SDC/SAD	814	476	1,290	234	207	134	111	90	100
Other ⁿ			-	81	19	40	14	36	20
Total Revenues	4,071	1,400	5,471	2,100	1,300	1,000	1,000	1,000	1,000
Funds Available			1,329						

m =mitigation; g=grant; d=developer contribution; n=not funded

Amounts are in thousands of dollars

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Water Main Replacement

Project Type: Major Maintenance

Total Anticipated Project Cost: \$ 12,871

Water Main Replacement (WO#55170):

This annual program consists of designing and installing new water mains to replace existing small diameter lines, primarily old, corroded and leaking cast-iron, steel water mains, and asbestos-cement pipes within the City's water system. The Water Utility has about 498,000 feet (94 miles) of steel and cast-iron water mains and about 24,000 feet (4.5 miles) of asbestos-cement water pipes that were installed from the 1940's through the early 1960s. Corroded pipes can cause leaks and costly repairs, reduction in water pressure and flow, and water quality problems associated with rust. Asbestos-cement water pipes pose a health-risk associated with asbestos fibers. This program will enhance the level of service by increasing fireflow availability, improve water quality in the distribution system, reduce unanticipated water service interruption, and reduce the possibility of water main breaks that can result in property damage. This pipe replacement project is anticipated to continue for the next 50 years. Estimated expenditures for this 6 year (2008-2013) planning period are \$5,700,000.

Duvall Avenue NE Water Main Replacement (WO# 55580):

This project consists of the installation of about 900-foot section of 12-inch water line in Duvall Ave. NE, in conjunction with the Duvall Avenue/Coal Creek Parkway roadway widening project. Estimated expenditures for this 6 year (2008-2013) planning period are \$300,000.

Highlands Redevelopment - NE Sunset Blvd. (WO# 55572):

This project consists of the construction of water main improvements in the Renton Highlands area to improve fire flow and to provide pipe capacity for future redevelopment projects. Funding for the Highlands project will be through a City-held special assessment district with cost participation from the developer of Harrington Square project and also from the City's Economic Development, Neighborhoods, and Strategic Planning (EDNSP) Department. The estimated Water Utility share of the expenditures for this 6 year (2008-2013) planning period are \$800,000.

Rainier Avenue South (WO# TBD):

This project consists of the construction of water main improvements in Rainier Avenue S. from S. 2nd St. to S. 7th St., in conjunction with the Rainier Avenue roadway reconstruction project. The project will improve fire flow and provide pipe capacity for future redevelopment projects. The estimated Water Utility share of the expenditures for this 6 year (2008-2013) planning period are \$600,000.

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: I-405 Utilities Relocation

Project Type: Major Maintenance

Total Anticipated Project Cost: \$ 924

Project Description: This program consists of the design and construction for the relocation of existing City's water mains within State right-of-ways to accommodate the improvements to I-405 corridor by WSDOT as required by utility franchise agreements.

Budget Overview		Budget	YTD Actual	Remaining
2006		50	4	46
2007 Adopted Budget		500		
Plus: Carryforward Funds		+/-		
Mid Year Adjustments		date +/-		
2007 Adjusted Budget		500		500

Summary of Progress & Changes

Construction of water line relocation within Sam's Club parking lot and in Talbot Rd S and SR-515 will be completed by end of December 2007.

Activity				P r o j e c t e d					
	Through 2006	June 2007 YTD	Life to Date Project Total	2008	2009	2010	2011	2012	2013
Expenditures	4	2	6	100	-	320	-	-	-
Revenues:									
Operating	2	330	332	14	-	67	-	-	-
Bonds/Loans	2	-	2	71	-	197	-	-	-
SDC/SAD		170	170	11	-	43	-	-	-
Other ⁿ			-	4	-	13	-	-	-
Total Revenues	4	500	504	100	-	320	-	-	-
Funds Available			498						

m =mitigation; g=grant; d=developer contribution; n=not funded

Amounts are in thousands of dollars

CAPITAL IMPROVEMENT PROGRAM

2007 through 2012

Project Title: I-405 Utilities Relocation

Project Type: Major Maintenance

Total Anticipated Project Cost: \$ 924

I-405 Utilities Relocation (WO # 55590):

This project consists of the relocation of existing water mains at various locations under I-405 and SR-167, to accommodate the improvements of I-405 corridor within Renton. As required by Utility Franchise permits from WSDOT, the City must relocate its water mains within I-405 right-of-way that are in conflict with the proposed I-405 improvements. Relocation of water mains within City-owned right-of-ways will be done with cost sharing with WSDOT through interlocal agreements. The estimated expenditures for this 6 year (2008-2013) planning period are \$420,000.

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Automatic Meter Reading Conversion

Project Type: Major Maintenance

Total Anticipated Project Cost: \$ 2,300

Project Description: This program consists of the conversion of about 15,000 existing City's water meters to an automatic meter reading (AMR) system. In addition to reducing the City's cost on meter reading and meter maintenance, the conversion to the AMR system will provide our customers with better information about water use, and more accurate billings.

Budget Overview		Budget	YTD Actual	Remaining
2006		-	-	-
2007 Adopted Budget		-		
Plus: Carryforward Funds		+/-		
Mid Year Adjustments	date	+/-		
2007 Adjusted Budget		-		-

Summary of Progress & Changes

A feasibility study and pilot program will be conducted in 2008 to determine the anticipated cost and potential savings to convert all of the City's 15,000 water meters to an automatic meter read (AMR) system.

Activity				P r o j e c t e d					
	Through 2006	June 2007 YTD	Life to Date Project Total	2008	2009	2010	2011	2012	2013
Expenditures	-	-	-	200	100	500	500	500	500
Revenues:									
Operating	-	-	-	29	18	104	93	102	100
Bonds/Loans	-	-	-	141	65	309	344	335	340
SDC/SAD	-	-	-	22	16	67	56	45	50
Other ⁿ	-	-	-	8	1	20	7	18	10
Total Revenues	-	-	-	200	100	500	500	500	500
Funds Available			-						

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Amounts are in thousands of dollars

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CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Water Utility Major Maintenance

Project Type: Major Maintenance

Total Anticipated Project Cost: \$ 6,743

Project Description: Major maintenance projects that are necessary to maintain the water system in proper working order. Specific project descriptions follow on page 17.

Budget Overview		Budget	YTD Actual	Remaining
2006		2,003	493	1,510
2007 Adopted Budget		2,620		
Plus: Carryforward Funds		+/- 14		
Mid Year Adjustments				
2007 Adjusted Budget		2,634		2,634

Summary of Progress & Changes

In 2007, Water Utility completed the installation of emergency electrical power generators to the Downtown wells, and the Mt. Olivet and N. Talbot Hill pump stations.

Activity				P r o j e c t e d					
	Through 2006	June 2007 YTD	Life to Date Project Total	2008	2009	2010	2011	2012	2013
Expenditures	2,609	1,818	4,427	210	340	190	210	200	350
Revenues:									
Operating	1,096	1,738	2,834	31	62	40	39	41	70
Bonds/Loans	991	-	991	148	219	117	145	134	238
SDC/SAD	522	896	1,418	23	54	25	23	18	35
Other ⁿ			-	8	5	8	3	7	7
Total Revenues	2,609	2,634	5,243	210	340	190	210	200	350
Funds Available			816						

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Amounts are in thousands of dollars

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Water Utility Major Maintenance

Project Type: Major Maintenance

Total Anticipated Project Cost: \$ 6,743

Reservoirs Repairs, Cathodic Protection and Exterior Recoat (WO# 55260):

This program consists of the inspection of existing five steel welded tanks and two concrete reservoirs for structural and coating damages and performing necessary repairs and recoats to extend the service life of the facilities. The program also includes the cleaning of the tanks, installation of cathodic protection system to prevent rusting, and installation of safety features for access and maintenance. The estimated expenditures for this project within this 6 year (2008-2013) planning period are \$600,000.

Emergency Response Water Projects (WO# 55265):

Emergency response water projects are unplanned projects or actions resulting from emergencies and unforeseen conditions such as major pipe failures and emergency repairs of water facilities. Estimated expenditures within this 6 year (2008-2013) planning period are \$600,000.

Emergency Power to Pump Stations (WO# 55582):

In 2007, three emergency electrical power generation facilities were installed to supply power to the City's Downtown and primary water supply wells, the Mt. Olivet pump station, and the N. Talbot Hill pump station.

Water System Security Improvements (WO# 55584):

This project consists of the design and construction of additional security improvements to the City's water system as recommended by the vulnerability assessment performed in 2004. The estimated expenditures for this project during the 6 year (2008-2013) planning period are \$300,000.

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Regulatory Compliance Program

Project Type: Regulatory Compliance Plans and Programs

Total Anticipated Project Cost: \$ 2,847

Project Description: On-going programs to comply with the Department of Health's regulatory requirements. Projects include the update of the water system plan, emergency response, water quality testing and monitoring, implementation of aquifer protection, and water conservation program. Description of the projects follows on pages 19 and 20.

Budget Overview		Budget	YTD Actual	Remaining
2006		345	58	287
2007 Adopted Budget		70		
Plus: Carryforward Funds	+/-	126		
Mid Year Adjustments				
2007 Adjusted Budget		196		196

Summary of Progress & Changes

The 2006 Water System Plan update has been completed. The City's drinking water supply and water treatment process continues to meet all Federal and State drinking water quality standards. We are continuing to implement our water conservation and aquifer protection program and cross-connection control program. All water quality testing and monitoring are performed on schedule.

Activity			Life to Date Project Total	P r o j e c t e d					
	Through 2006	June 2007 YTD		2008	2009	2010	2011	2012	2013
Expenditures	1,391	10	1,401	165	155	135	335	235	235
Revenues:									
Operating	584	129	713	24	28	28	62	48	47
Bonds/Loans	529	-	529	117	100	84	231	157	159
SDC/SAD	278	67	345	18	25	18	37	21	24
Other ⁿ			-	6	2	5	5	9	5
Total Revenues	1,391	196	1,587	165	155	135	335	235	235
Funds Available			187						

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Amounts are in thousands of dollars

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Regulatory Compliance Program

Project Type: Regulatory Compliance Plans and Programs

Total Anticipated Project Cost: \$ 2,847

Maplewood Water Rights Compliance (WO# 55005):

The Department of Ecology requires the City to monitor and analyze for several years the impact to the flows of the Cedar River from pumping the Maplewood wells. The City must also monitor the shallow and deep aquifers and perform pump tests to determine the best approach to maintain river flows. This project consists of the maintenance and repair of electronic water levels monitoring equipment installed in the Cedar River and in groundwater wells. The data collected needs to be analyzed and reports of findings must be submitted to Ecology for evaluation prior to issuance of the final water rights certificates. The estimated expenditures for this project during this 6 year planning period (2008-2013) are \$100,000.

Water System Plan and Water Reuse Plan Update (WO# 55140):

This project consists of the update of the Water System Comprehensive Plan in accordance to the Department of Health's requirements. The purpose of the plan is to present recommended facility improvements and policy criteria to be used to construct and maintain a potable municipal water supply system that is adequate, safe, and reliable. The 2006 update of the plan was completed and was approved by the Department of Health in February 2006, and the next update plan is due in 2012. The project also includes the update of the Conceptual Water Reuse Plan to evaluate providing reclaimed water from the King County/Metro Treatment Plant to potential customers in the vicinity of the plant. The estimated expenditure for 6 year (2008-2013) planning period is \$440,000.

Water System Emergency Response Plan (WO# 55160):

This project consists of the update of the Emergency Response Plan to comply with the Department of Health requirements. Estimated expenditures within this 6 year (2008-2013) planning period are \$60,000.

Update Hydraulic Model and Fireflow Analysis (WO# 55210):

This project consists of the maintenance and update of the hydraulic computer model of the water system and fire flow analyses. The Water Utility staff produces maps showing the available fire flow from the water mains and hydrants throughout the City. The estimated expenditures for this project during the 6 year (2008-2013) planning period are \$90,000.

Water Conservation Implementation (WO# 55200):

This project consists of the development and implementation of a water conservation program to comply with the Department of Health's requirements. The goal of the program is to promote and implement a water conservation ethic that will lead to permanent reductions in per capita water consumption. The project includes the update of the Water Shortage Response Plan to provide guidelines for the City to manage water supply and demand during water shortages. The estimated expenditures for this project within this 6 year (2008-2013) planning period are \$300,000.

Cathodic Protection Monitoring (WO# 55320):

This project consists of the development and implementation of a joint monitoring program to monitor the existing cathodic protection systems. The monitoring allows the detection of electrical current interference between Puget Sound Energy's natural gas and water mains. The estimated expenditures for this project within this 6 year (2008-2013) planning period are \$60,000.

CAPITAL IMPROVEMENT PROGRAM

2008 through 2013

Project Title: Regulatory Compliance Program

Project Type: Regulatory Compliance Plans and Programs

Total Anticipated Project Cost: \$ 2,847

Water System GIS Database Maintenance (WO# 55380):

This project consists of the development and maintenance of the Geographical Information System (GIS) structure and database for the water system. The estimated expenditures for this project within this 6 year (2008-2013) planning period are \$30,000.

Water Quality Monitoring and Investigation (WO# 55310):

This project consists of performing water quality sampling and analyses of the drinking water supply wells in compliance with the Department of Health's requirements. This project also includes the water quality testing of the groundwater in many monitoring wells throughout the City in order to protect the drinking water aquifer from contaminants. The estimated expenditures for this project within the 6 year planning period (2008-2013) are \$180,000.